

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

SECRET

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COUNTRY East Germany

REPORT

SUBJECT Development of Traveling-Wave Tubes
at VEB Werk fuer Fernmeldewesen

DATE DISTR. 11 August 1955

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REFERENCES

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This is UNEVALUATED Information

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
THE APPRAISAL OF CONTENT IS TENTATIVE.
(FOR KEY SEE REVERSE)

1. VEB Werk fuer Fernmeldewesen, Berlin-Oberschoeneweide, has been engaged in attempts to develop traveling-wave tubes for some time. As of June 1955, the development work had produced no satisfactory results. No functioning traveling-wave tube model had, as of this date, been constructed.
2. The difficulties incurred in this development are as follows: In order to prevent disturbances caused by reflection, the tubes must be uncoupled (entkuppelt). Uncoupling has been tried by artificial damping of the retardation circuit (Verzoegerungsleitung). For this purpose, a tapered carbon layer was applied to the inside of the coil jacket. However, it has thus far been impossible to apply the carbon layer in such a way that the tubes function properly.

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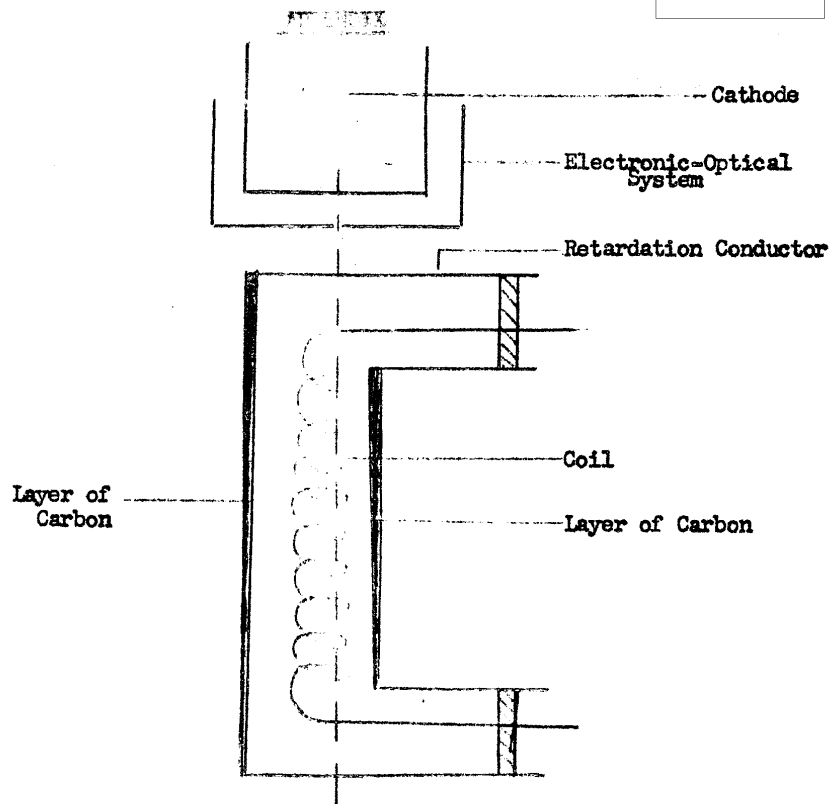
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Retardation Circuit of Travelling-Wave Tubes

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